

Title (en)
TELLURIUM-CONTAINING NANOCRYSTALLINE MATERIALS

Title (de)
NANOKRISTALLINE TELLUR ENTHALTENDE MATERIALIEN

Title (fr)
TELLURE CONTENANT DES MATERIAUX NANOCRYSTALLINS

Publication
EP 1250474 B1 20051026 (EN)

Application
EP 00950729 A 20000726

Priority
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• US 14570899 P 19990726

Abstract (en)
[origin: WO0107689A2] Tellurium-containing nanocrystallites are produced by injection of a precursor into a hot coordinating solvent, followed by controlled growth and annealing. Nanocrystallites may include CdTe, ZnTe, MgTe, HgTe, or alloys thereof. The nanocrystallites can photoluminesce with quantum efficiencies as high as 70 %.

IPC 1-7
C30B 7/00; H01L 33/00; C07F 9/22; C07F 9/36; C30B 29/60; C01B 19/04; C07F 9/44

IPC 8 full level
C01B 19/04 (2006.01); **C01B 19/00** (2006.01); **C07F 9/22** (2006.01); **C07F 9/53** (2006.01); **C09K 11/08** (2006.01); **C09K 11/88** (2006.01); **C30B 7/00** (2006.01); H01L 33/08 (2010.01); H01L 33/28 (2010.01)

CPC (source: EP)
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WO 0107689 A2 20010201; **WO 0107689 A3 20010927**; AT E307919 T1 20051115; AU 6379100 A 20010213; CA 2374337 A1 20010201; CA 2374337 C 20090414; DE 60023559 D1 20051201; DE 60023559 T2 20060907; EP 1250474 A2 20021023; EP 1250474 B1 20051026; JP 2003505330 A 20030212; JP 2011148797 A 20110804; JP 5165824 B2 20130321; JP 5513421 B2 20140604

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